ITD INNOVATIVE TECHNOLOGY DEPLOYMENT

U.S. Department of Transportation

Federal Motor Carrier Safety Administration

ITD State Data Quality Evaluation Results

SEPTEMBER | 2023

Contents

ITD State Data Quality Evaluation Results
September 2023

This report presents the results of the September 2023 State Data Quality (DQ) evaluation. It also provides background on the purpose, development, and methodology of the State DQ Measures.

ITD DQ Initiative

Data quality is a top priority of the Federal Motor Carrier Safety Administration (FMCSA) and the Innovative Technology Deployment (ITD) Program. The ITD DQ Improvement Initiative was developed by the ITD Support team at the Volpe National Transportation Systems Center (Volpe), in coordination with an ACCB[1] DQ Working Group, to identify and resolve DQ issues. The ITD Support team developed DQ measures, standards, and evaluation methodologies, which were reviewed and accepted by the ACCB. Since June 2015, the ITD Support team has analyzed and reported monthly DQ results to the ITD community. Monthly reports provide DQ ratings generated by:

- The DQ Performance Measures, which rate the quality of IFTA[2] and IRP[3] credential data uploaded by ITD States to SAFER via the T-19 (IFTA Input Transaction) and the T-22 (IRP Registration Input Transaction).
- The DQ Communication Process, which communicates, and monitors correction of, individual State-reported DQ issues.

Purpose and Evolution of the ITD DQ Measures

The purpose of the ITD DQ Performance Measures is not to be punitive, but to highlight data quality issues and prompt States to investigate causes. The measures were designed to address expectations of the ITD Program as well as issues raised by States during program workshops and ACCB meetings; the design was also informed by the DQ Communication Process. Ongoing discussion is encouraged as the measures evolve with the needs of the Program and the ITD community.

See below for a high-level timeline of the development and modification of the ITD DQ Measures. The appendix to this report provides details.

2015 Implemented measures for IFTA & IRP data → **2019** Achieved significant improvement → **2020** Raised the bar for IRP data → **2021** Raised the bar for IFTA data → **2022** Raised the bar for IFTA & IRP data

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[1] ACCB − ITD Architecture Change Control Board.
[2] IFTA − International Fuel Tax Association.
[3] IRP − International Registration Plan.

Overview of DQ Measures – T-19 (IFTA)

The T-19 DQ Measures rate the quality of IFTA data uploaded by IFTA Commercial Vehicle Information Exchange Window (CVIEW)-certified States to FMCSA's Safety and Fitness Electronic Records (SAFER). Every month, five individual measures and an overall measure are calculated for each IFTA CVIEW-certified State, and ratings are reported. For each individual measure, a rating of Good, Fair, or Poor is generated and a rating value is assigned; the Overall T-19 rating is calculated from the individual rating values.

Individual Measures – T-19

The T-19 Individual Measures, calculated ratings, and rating values are defined below.

T-19 Measures and Rating Calculations/Values – Effective December 2021

Measure	Standard	Method / Data Source	Calculation/Ratings	Rating Value
1 Timeliness: Upload Frequency	Daily uploads	Compare number of T-19 uploads per month to the frequency standard (number of business days in evaluated month). Calculate the percent of upload frequency achieved compared to standard. **Source:** Daily Reports, sending States.	M1 = # uploads / # business days **Good** if M1 % >= 100 **Fair** if 95 <= M1 % <= 99 **Poor** if 0 <= M1 % <= 94	**Good** = 3 **Fair** = 2 **Poor** = 1
2 Completeness: Successful Uploads	Minimal error rate	Calculate the percent of received T-19 records that were applied to SAFER (not rejected). **Source:** Log files, counts of received vs applied.	M2 = # applied / # received, 0, if # received = 0 **Good** if M2 % = 100 **Fair** if 95 <= M2 % <= 99 **Poor** if 0 <= M2 % <= 94	**Good** = 3 **Fair** = 2 **Poor** = 1
3 Accuracy: Last Update Date Currency	Update date must not be older than existing data	Calculate the percent of total T-19 records that were not rejected with the error "Older than existing data." **Source:** Log files. Counts of error message "Older than existing data."	M3 = 100% - (# rejected_error / # received), 0, if # received = 0 **Good** if M3 % = 100 **Fair** if 98 <= M3 % <= 99 **Poor** if 0 <= M3 % <= 97	**Good** = 3 **Fair** = 2 **Poor** = 1
4 Validity: IFTA Exp. Date./ Status	IFTA account exp. date and status must be aligned	Calculate the percent of active T-19 Interstate records (Active account status) that show valid account (exp. date not expired). **Source:** SAFER database. Query of process time, interstate flag, IFTA exp. date, IFTA status.	M4 = 100% - (# count / # active), 0, if # active = 0 **Good** if M4 % = 100 **Fair** if 95 <= M4 % <= 99 **Poor** if 0 <= M4 % <= 94	**Good** = 3 **Fair** = 2 **Poor** = 1
5 Baseline Frequency	Annual IRP Baseline (minimum)	**Source:** ITD Support records.	M5 = 2, if exempt M5 = 1, if baseline last 12 mos. M5 = 0, if no baseline last 12 mos.	**Good** = 3 **Poor** = 1

Overall Rating – T-19

The T-19 Overall rating is calculated as shown below.

T-19 Overall Rating Calculation – Effective August 2022

Individual T-19 Rating Values	Measure Weights	Overall Rating Calculation	Overall Rating Ranges
Good = 3 Fair = 2 Poor = 1	M1: Timely Uploads = 15% M2: Completeness = 30% M3: Accuracy = 20% M4: Validity = 30% M5: Timely Baselines = 5%	(M1 Rating Value * 15%) + (M2 Rating Value * 30%) + (M3 Rating Value * 20%) + (M4 Rating Value * 30*) + (M5 Rating Value * 5%) If calculated Overall Rating is <1, = 0	Good: 2.7 – 3.0 Fair: 2.3 – 2.6 Poor: ≤2.2

Overall Ratings – T-19 (IFTA)

All ratings are presented in this report as a rolling three months for comparison purposes. For reference, the chart below shows each State's Core and CVIEW certification status along with its Overall ratings.

State T-19 (IFTA) Overall Ratings July – September 2023

Good: 2.7 – 3.0	Fair: 2.3 – 2.6	Poor: ≤ 2.2

STATE	Core Certified	IFTA CVIEW Certified	July Overall Rating	August Overall Rating	Sept. Overall Rating
AK*	Yes	Yes	n/a	n/a	n/a
AL	Yes	Yes	3.0	3.0	3.0
AR	Yes	Yes	3.0	3.0	3.0
AZ	Yes	Yes	3.0	1.5	1.8
CA	Yes	Yes	3.0	3.0	3.0
CO	Yes	Yes	2.7	2.7	2.7
CT	Yes	Yes	3.0	2.9	2.1
DC	No	No	n/a	n/a	n/a
DE	Yes	Yes	3.0	3.0	3.0
FL	Yes	Yes	2.4	2.3	2.4
GA	Yes	Yes	2.4	2.4	2.4
HI	No	No	n/a	n/a	n/a
IA	Yes	Yes	3.0	2.9	2.7
ID	Yes	Yes	2.4	2.4	2.7
IL	Yes	Yes	3.0	3.0	2.9
IN	Yes	Yes	3.0	3.0	2.9
KS	Yes	Yes	2.7	2.7	2.7
KY	Yes	Yes	3.0	3.0	3.0
LA	Yes	Yes	2.9	2.9	2.9
MA	Yes	Yes	2.6	2.9	3.0
MD	Yes	Yes	3.0	3.0	3.0
ME	Yes	Yes	3.0	3.0	3.0
MI	Yes	Yes	3.0	3.0	3.0
MN	No	Yes	3.0	2.9	3.0
MO	Yes	Yes	3.0	3.0	3.0
MS	Yes	Yes	2.9	2.7	2.7

STATE	Core Certified	IFTA CVIEW Certified	July Overall Rating	August Overall Rating	Sept. Overall Rating
MT	Yes	Yes	3.0	3.0	3.0
NC	Yes	Yes	3.0	3.0	3.0
ND	No	No	n/a	n/a	n/a
NE	Yes	Yes	2.9	3.0	3.0
NH	Yes	Yes	3.0	3.0	3.0
NJ	Yes	Yes	3.0	3.0	3.0
NM	Yes	Yes	3.0	3.0	2.9
NV	Yes	Yes	3.0	3.0	3.0
NY	Yes	Yes	3.0	2.9	3.0
OH	Yes	Yes	3.0	3.0	3.0
OK	Yes	Yes	3.0	2.9	3.0
OR	Yes	Yes	3.0	2.7	3.0
PA	No	No	n/a	n/a	n/a
RI	Yes	Yes	3.0	2.3	2.7
SC	Yes	Yes	3.0	3.0	3.0
SD	Yes	Yes	3.0	3.0	3.0
TN	Yes	Yes	3.0	3.0	3.0
TX	Yes	Yes	3.0	3.0	3.0
UT	Yes	Yes	2.7	2.7	2.7
VA	Yes	Yes	3.0	3.0	3.0
VT	Yes	Yes	3.0	2.9	3.0
WA	Yes	Yes	3.0	2.9	2.9
WI	Yes	Yes	3.0	3.0	2.0
WV	Yes	Yes	3.0	3.0	3.0
WY	Yes	Yes	2.7	2.9	2.7

*AK is CVIEW Certified but exempt from IFTA uploading.
n/a = Not CVIEW Certified or Insufficient Data.

National Counts of T-19 Overall Rating Ranges July – September 2023

July Overall Rating	IFTA CVIEW Certified	August Overall Rating	IFTA CVIEW Certified	Sept. Overall Rating	IFTA CVIEW Certified
Good	42	Good	41	Good	41
Fair	4	Fair	4	Fair	2
Poor	0	Poor	1	Poor	3
Total	46	Total	46	Total	46

Note: The CVIEW-certified totals in this table might not equal the total count of CVIEW-certified States due to insufficient data for calculating an Overall rating in any month.

Individual Ratings by State – T-19 (IFTA)

M1 Timeliness: Upload Frequency – T-19

Standard: Daily uploads.
- Upload frequency equals or exceeds number of business days in the evaluated month.
- **Frequency Standard = 20:** September had 21 weekdays, 1 Federal holiday, and no SAFER down days.

Methodology: Compare the number of uploads to the frequency standard; calculate the percent of the frequency standard achieved by the State.

Source: Daily Reports, 9/1/2023 – 9/30/2023.

Rating Ranges:
- Good: ≥ 100%
- Fair: 95% – 99%
- Poor: ≤ 94%

M1 Timeliness: Upload Frequency – T-19 State Ratings July – September 2023

Good: ≥ 100%	Fair: 95 - 99%	Poor: ≤ 94%

STATE	IFTA CVIEW Certified	July Uploads % of Standard	August Uploads % of Standard	Sept. Uploads % of Standard
AK*	Yes	n/a	n/a	n/a
AL	Yes	130	135	125
AR	Yes	135	117	120
AZ	Yes	140	52	75
CA	Yes	155	135	145
CO	Yes	90	87	90
CT	Yes	100	96	25
DC	No	n/a	n/a	n/a
DE	Yes	155	122	135
FL	Yes	105	96	100
GA	Yes	85	91	90
HI	No	n/a	n/a	n/a
IA	Yes	105	96	80
ID	Yes	90	83	90
IL	Yes	100	100	95
IN	Yes	145	122	135
KS	Yes	85	78	85
KY	Yes	155	135	150
LA	Yes	155	135	150
MA	Yes	100	96	100
MD	Yes	155	130	150
ME	Yes	155	130	110
MI	Yes	155	130	120
MN	Yes	100	96	105
MO	Yes	125	109	140
MS	Yes	95	91	90

STATE	IFTA CVIEW Certified	July Uploads % of Standard	August Uploads % of Standard	Sept. Uploads % of Standard
MT	Yes	150	130	145
NC	Yes	150	135	145
ND	No	n/a	n/a	n/a
NE	Yes	95	100	100
NH	Yes	155	130	115
NJ	Yes	150	135	145
NM	Yes	100	100	105
NV	Yes	155	122	130
NY	Yes	105	96	105
OH	Yes	100	100	100
OK	Yes	105	96	105
OR	Yes	110	104	100
PA	No	n/a	n/a	n/a
RI	Yes	140	96	135
SC	Yes	150	104	125
SD	Yes	155	126	145
TN	Yes	155	130	145
TX	Yes	105	100	105
UT	Yes	90	91	90
VA	Yes	155	135	145
VT	Yes	100	96	100
WA	Yes	110	100	115
WI	Yes	105	100	105
WV	Yes	155	135	150
WY	Yes	85	96	90

n/a = Not Applicable: Not CVIEW Certified or Insufficient Data.

* AK is CVIEW Certified but exempt from IFTA uploading.

M2 Completeness: Successful Uploads – T-19

Standard: Minimal error rate.

Methodology: Calculate the percent of received T-19 records that were applied to SAFER (not rejected).

Source: Error logs, 9/1/2023 – 9/30/2023.

Rating Ranges:
- Good: 100%
- Fair: 95 – 99%
- Poor: ≤ 94%

M2 Completeness: Successful Uploads – T-19 State Ratings July – September 2023

Good: 100%	Fair: 95 - 99%	Poor: ≤ 94%

STATE	IFTA CVIEW Certified	July % Successful Uploads	August % Successful Uploads	Sept. % Successful Uploads
AK*	Yes	n/a	n/a	n/a
AL	Yes	100	100	100
AR	Yes	100	100	100
AZ	Yes	100	14	99
CA	Yes	100	100	100
CO	Yes	100	100	100
CT	Yes	100	100	25
DC	No	n/a	n/a	n/a
DE	Yes	100	100	100
FL	Yes	100	100	100
GA	Yes	100	100	100
HI	No	n/a	n/a	n/a
IA	Yes	100	100	100
ID	Yes	100	100	100
IL	Yes	100	100	100
IN	Yes	100	100	100
KS	Yes	100	100	100
KY	Yes	100	100	100
LA	Yes	100	100	100
MA	Yes	100	100	100
MD	Yes	100	100	100
ME	Yes	100	100	100
MI	Yes	100	100	100
MN	Yes	100	100	100
MO	Yes	100	100	100
MS	Yes	100	100	100
MT	Yes	100	100	100

STATE	IFTA CVIEW Certified	July % Successful Uploads	August % Successful Uploads	Sept. % Successful Uploads
NC	Yes	100	100	100
ND	No	n/a	n/a	n/a
NE	Yes	100	100	100
NH	Yes	100	100	100
NJ	Yes	100	100	100
NM	Yes	100	100	100
NV	Yes	100	100	100
NY	Yes	100	100	100
OH	Yes	100	100	100
OK	Yes	100	100	100
OR	Yes	100	99	100
PA	No	n/a	n/a	n/a
RI	Yes	100	55	99
SC	Yes	100	100	100
SD	Yes	100	100	100
TN	Yes	100	100	100
TX	Yes	100	100	100
UT	Yes	100	100	100
VA	Yes	100	100	100
VT	Yes	100	100	100
WA	Yes	100	100	100
WI	Yes	100	100	92
WV	Yes	100	100	100
WY	Yes	100	100	100

n/a = Not Applicable: Not CVIEW Certified or Insufficient Data.

* AK is CVIEW Certified but exempt from IFTA uploading.

M3 Accuracy: Last Update Date Currency – T-19

Standard: Update date must not be older than existing data.

Methodology: Calculate the percent of total T-19 records that were not rejected with the error "Older than existing data."

Source: Error logs, 9/1/2023 – 9/30/2023.

Rating Ranges:
- Good: 100%
- Fair: 98 – 99%
- Poor: ≤ 97%

M3 Accuracy: Last Update Date Currency – T-19 State Ratings July – September 2023

Good: 100%	Fair: 98 - 99%	Poor: ≤ 97%

STATE	IFTA CVIEW Certified	July % Current	August % Current	Sept. % Current
AK*	Yes	n/a	n/a	n/a
AL	Yes	100	100	100
AR	Yes	100	100	100
AZ	Yes	100	100	100
CA	Yes	100	100	100
CO	Yes	100	100	100
CT	Yes	100	100	100
DC	No	n/a	n/a	n/a
DE	Yes	100	100	100
FL	Yes	100	100	100
GA	Yes	100	100	100
HI	No	n/a	n/a	n/a
IA	Yes	100	100	100
ID	Yes	100	100	100
IL	Yes	100	100	100
IN	Yes	100	100	100
KS	Yes	100	100	100
KY	Yes	100	100	100
LA	Yes	100	100	100
MA	Yes	100	100	100
MD	Yes	100	100	100
ME	Yes	100	100	100
MI	Yes	100	100	100
MN	Yes	100	100	100
MO	Yes	100	100	100
MS	Yes	100	100	100
MT	Yes	100	100	100

STATE	IFTA CVIEW Certified	July % Current	August % Current	Sept. % Current
NC	Yes	100	100	100
ND	No	n/a	n/a	n/a
NE	Yes	100	100	100
NH	Yes	100	100	100
NJ	Yes	100	100	100
NM	Yes	100	100	100
NV	Yes	100	100	100
NY	Yes	100	100	100
OH	Yes	100	100	100
OK	Yes	100	100	100
OR	Yes	100	100	100
PA	No	n/a	n/a	n/a
RI	Yes	100	100	100
SC	Yes	100	100	100
SD	Yes	100	100	100
TN	Yes	100	100	100
TX	Yes	100	100	100
UT	Yes	100	100	100
VA	Yes	100	100	100
VT	Yes	100	100	100
WA	Yes	100	100	100
WI	Yes	100	100	92
WV	Yes	100	100	100
WY	Yes	100	100	100

n/a = Not Applicable: Not CVIEW Certified or Insufficient Data.

WS = FL uses web service.

* AK is CVIEW Certified but exempt from IFTA uploading.

M4 Validity: IFTA Account and Status – T-19

Standard: IFTA account validity and IFTA status must be aligned.

Methodology: Calculate the percent of active T-19 Interstate records (IFTA status of Active) that show a valid IFTA account.

Source: SAFER, 10/4/2023. (Query of carrier IFTA status code, account number, and expiration date.)

Rating Ranges:
- Good: 100%
- Fair: 95 – 99%
- Poor: ≤ 94%

M4 Validity: IFTA Account and Status – T-19 State Ratings July – September 2023

Note: As of the **April 2018** evaluation, the T-19 M4 measure allows for a 60-day grace period, which is the IFTA standard; previously, this measure allowed for a 30-day grace period.

Good: 100%	Fair: 95 - 99%	Poor: ≤ 94%

STATE	IFTA CVIEW Certified	July % Aligned	August % Aligned	Sept. % Aligned
AK[1]	Yes	n/a	n/a	n/a
AL	Yes	100	100	100
AR	Yes	100	100	100
AZ	Yes	100	0	90
CA[2]	Yes	100	100	100
CO	Yes	100	100	100
CT	Yes	100	100	100
DC	No	n/a	n/a	n/a
DE	Yes	100	100	100
FL	Yes	87	88	86
GA	Yes	97	97	97
HI	No	n/a	n/a	n/a
IA	Yes	100	100	100
ID	Yes	99	99	100
IL	Yes	100	100	100
IN	Yes	100	100	100
KS	Yes	100	100	100
KY	Yes	100	100	100
LA	Yes	100	100	100
MA	Yes	98	100	100
MD	Yes	100	100	100
ME	Yes	100	100	100
MI	Yes	100	100	100
MN	Yes	100	100	100
MO	Yes	100	100	100
MS	Yes	100	100	100

STATE	IFTA CVIEW Certified	July % Aligned	August % Aligned	Sept. % Aligned
MT	Yes	100	100	100
NC[2]	Yes	100	100	100
ND	No	n/a	n/a	n/a
NE	Yes	100	100	100
NH	Yes	100	100	100
NJ	Yes	100	100	100
NM	Yes	100	100	100
NV	Yes	100	100	100
NY	Yes	100	100	100
OH	Yes	100	100	100
OK	Yes	100	100	100
OR	Yes	100	100	100
PA	No	n/a	n/a	n/a
RI	Yes	100	100	100
SC	Yes	100	100	100
SD	Yes	100	100	100
TN	Yes	100	100	100
TX	Yes	100	100	100
UT	Yes	100	100	100
VA	Yes	100	100	100
VT	Yes	100	100	100
WA	Yes	100	100	100
WI	Yes	100	100	100
WV	Yes	100	100	100
WY	Yes	100	100	100

n/a = Not Applicable: Not CVIEW Certified or Insufficient Data.

[1] AK is CVIEW Certified but exempt from IFTA uploading.

[2] CA and NC IFTA data is sent directly from IFTA clearinghouse.

M5 Timeliness: IFTA Baseline Frequency – T-19

Standard: Annual IFTA baseline (minimum).
Source: ITD Support records.
Rating Ranges:

- **Good:** State conducted an IFTA baseline at least once in the past 12 months.
- **Poor:** State did not conduct a baseline at least once in the past 12 months.

State	Oct.	Nov.	Dec.
GA			DUE
ID	DUE		

M5 Timeliness: IFTA Baseline Frequency – T-19 State Ratings
July – September 2023

Good: Baseline in Last 12 Months	Poor: No Baseline in Last 12 Months	Good: Baseline Due Soon

State	IFTA CVIEW Certified	July Rating	August Rating	Sept. Rating
AK[1]	Yes	n/a	n/a	n/a
AL	Yes	Good	Good	Good
AR	Yes	Good	Good	Good
AZ	Yes	Good	Good	Good
CA[2]	Yes	Good	Good	Good
CO	Yes	Good	Good	Good
CT	Yes	Good	Good	Good
DC	No	n/a	n/a	n/a
DE	Yes	Good	Good	Good
FL[2]	Yes	Good	Good	Good
GA	Yes	Good	Good	Good
HI	No	n/a	n/a	n/a
IA	Yes	Good	Good	Good
ID	Yes	Good	Good	Good
IL	Yes	Good	Good	Good
IN	Yes	Good	Good	Poor
KS	Yes	Good	Good	Good
KY	Yes	Good	Good	Good
LA	Yes	Poor	Poor	Poor
MA	Yes	Poor	Good	Good
MD	Yes	Good	Good	Good
ME	Yes	Good	Good	Good
MI	Yes	Good	Good	Good
MN	Yes	Good	Good	Good
MO	Yes	Good	Good	Good
MS	Yes	Good	Good	Good

State	IFTA CVIEW Certified	July Rating	August Rating	Sept. Rating
MT	Yes	Good	Good	Good
NC[2]	Yes	Good	Good	Good
ND	No	n/a	n/a	n/a
NE	Yes	Good	Good	Good
NH	Yes	Good	Good	Good
NJ	Yes	Good	Good	Good
NM	Yes	Good	Good	Poor
NV	Yes	Good	Good	Good
NY	Yes	Good	Good	Good
OH	Yes	Good	Good	Good
OK	Yes	Good	Good	Good
OR	Yes	Good	Good	Good
PA	No	n/a	n/a	n/a
RI	Yes	Good	Good	Good
SC	Yes	Good	Good	Good
SD	Yes	Good	Good	Good
TN	Yes	Good	Good	Good
TX	Yes	Good	Good	Good
UT	Yes	Good	Good	Good
VA	Yes	Good	Good	Good
VT	Yes	Good	Good	Good
WA	Yes	Good	Poor	Poor
WI	Yes	Good	Good	Good
WV	Yes	Good	Good	Good
WY	Yes	Good	Good	Good

n/a = Not Applicable: Not CVIEW Certified or Insufficient Data.
[1] AK is CVIEW Certified but exempt from IFTA uploading.

[2] CA, FL, and NC are exempt from baselining so receive credit for purposes of calculating the Overall rating.

Overview of DQ Measures – T-22 (IRP)

The T-22 DQ Measures rate the quality of IRP data uploaded by IRP CVIEW-certified States to SAFER. Every month, five individual measures and an overall measure are calculated for each IRP CVIEW-certified State, and ratings are reported. For each individual measure, a rating of Good, Fair, or Poor is generated and a rating value is assigned; the Overall rating is calculated from individual rating values.

Individual Measures – T-22

The T-22 Individual Measures, calculated ratings, and rating values are defined below.

ITD Data Quality Measures – T-22 (IRP) – Effective April 2020

Measure	Standard	Method / Data Source	Calculation/Ratings	Rating Value
1 Timeliness: Upload Frequency	Daily uploads	Compare number of T-22 uploads per month to the frequency standard (number of business days in evaluated month). Calculate the percent of upload frequency achieved compared to standard. **Source:** Daily Reports, sending States.	M1 = # uploads / # business days **Good** if M1 % >= 100 **Fair** if 95 <= M1% <= 99 **Poor** if 0 <= M1 % <= 94	**Good** = 3 **Fair** = 2 **Poor** = 1
2 Completeness: Successful Uploads	Minimal error rate	Calculate the percent of received T-22 records that were applied to SAFER (not rejected). **Source:** Log files, counts of received vs applied.	M2 = # applied / # received, 0, if # received = 0 **Good** if M2 % = 100 **Fair** if 95 <= M2 % <= 99 **Poor** if 0 <= M2 % <= 94	**Good** = 3 **Fair** = 2 **Poor = 1**
3 Accuracy: Last Update Date Currency	Update date must not be older than existing data	Calculate the percent of total T-22 records that were not rejected with the error "Older than existing data." **Source:** Log files. Counts of error message "Older than existing data."	M3 = 100% - (# rejected_error / # received), 0, if # received = 0 **Good** if M3 % = 100 **Fair** if 98 <= M3 % <= 99 **Poor** if 0 <= M3 % <= 97	**Good** = 3 **Fair** = 2 **Poor = 1** 0, else
4 Validity: Vehicle Reg./IRP Status	Vehicle reg. status and IRP status must be aligned	Calculate the percent of active T-22 Interstate records (Active IRP status) that show valid vehicle registration. **Source:** SAFER database. Query of process time, interstate flag, reg. status, IRP status.	M4 = 100% - (# count / # active), 0, if # active = 0 **Good** if M4 % = 100 **Fair** if 95 <= M4 % <= 99 **Poor** if 0 <= M4 % <= 94	**Good** = 3 **Fair** = 2 **Poor = 1**
5 Baseline Frequency	Annual IRP Baseline (minimum)	**Source:** ITD Support records.	M5 = 2, if exempt M5 = 1, if baseline in last 12 mos. M5 = 0, if no baseline in last 12 mos. **Good** if M5 = 1 or 2 **Poor** if M5 = 0	**Good** = 3 **Poor = 1**

Overall Measure – T-22

The T-22 Overall rating is calculated as shown below.

T-22 Overall Rating Calculation – Effective August 2022

Individual T-22 Rating Values	Measure Weights	Overall Rating Calculation	Overall Rating Ranges
Good = 3 Fair = 2 Poor = 1	M1: Timely Uploads = 15% M2: Completeness = 30% M3: Accuracy = 20% M4: Validity = 30% M5: Timely Baselines = 5%	(M1 Rating Value * 15%) + (M2 Rating Value * 30%) + (M3 Rating Value * 20%) + (M4 Rating Value * 30*) + (M5 Rating Value * 5%) If calculated Overall Rating is <1, = 0	Good: 2.7 – 3.0 Fair: 2.3 – 2.6 Poor: ≤2.2

Overall Ratings – T-22 (IRP)

All ratings are presented in this report as a rolling three months for comparison purposes. For reference, the chart below shows each State's Core and CVIEW certification status, along with its Overall ratings.

State T-22 (IRP) Overall Ratings July – September 2023

Note: Some declining 2023 ratings could be related to State staff focus on the required transition to the IRP Data Repository.

Good: 2.7 – 3.0	Fair: 2.3 – 2.6	Poor: ≤ 2.2

STATE	Core Certified	IRP CVIEW Certified	July Overall Rating	August Overall Rating	Sept. Overall Rating
AK	Yes	Yes	2.7	2.7	2.7
AL	Yes	Yes	3.0	3.0	3.0
AR	Yes	Yes	3.0	3.0	3.0
AZ	Yes	Yes	2.4	2.4	2.7
CA	Yes	Yes	3.0	3.0	2.7
CO	Yes	Yes	3.0	2.7	3.0
CT	Yes	Yes	3.0	3.0	3.0
DC	No	Yes	n/a	n/a	n/a
DE	Yes	Yes	3.0	3.0	3.0
FL	Yes	Yes	2.4	2.4	2.4
GA	Yes	Yes	3.0	3.0	3.0
HI	No	No	n/a	n/a	n/a
IA	Yes	Yes	2.7	2.7	2.7
ID	Yes	Yes	3.0	3.0	3.0
IL	Yes	Yes	2.3	2.4	3.0
IN	Yes	Yes	2.7	3.0	3.0
KS	Yes	Yes	3.0	3.0	3.0
KY	Yes	Yes	3.0	3.0	3.0
LA	Yes	Yes	3.0	3.0	3.0
MA	Yes	Yes	2.7	2.7	2.7
MD	Yes	Yes	3.0	3.0	3.0
ME	Yes	Yes	3.0	3.0	3.0
MI	Yes	Yes	3.0	3.0	3.0
MN	No	Yes	3.0	3.0	3.0
MO	Yes	Yes	2.4	3.0	3.0
MS	Yes	Yes	3.0	3.0	3.0

STATE	Core Certified	IRP CVIEW Certified	July Overall Rating	August Overall Rating	Sept. Overall Rating
MT	Yes	Yes	3.0	3.0	3.0
NC	Yes	Yes	2.9	2.6	2.9
ND	No	Yes	2.4	2.4	2.4
NE	Yes	Yes	3.0	3.0	3.0
NH	Yes	Yes	3.0	3.0	3.0
NJ	Yes	Yes	2.7	2.4	2.4
NM	Yes	Yes	2.4	2.4	2.3
NV	Yes	Yes	3.0	3.0	3.0
NY	Yes	Yes	3.0	3.0	3.0
OH	Yes	Yes	3.0	3.0	3.0
OK	Yes	Yes	2.7	2.7	2.7
OR	Yes	Yes	3.0	3.0	3.0
PA	No	Yes	2.9	2.9	2.9
RI	Yes	Yes	3.0	3.0	3.0
SC	Yes	Yes	3.0	3.0	3.0
SD	Yes	Yes	3.0	3.0	3.0
TN	Yes	Yes	3.0	3.0	3.0
TX	Yes	Yes	3.0	3.0	3.0
UT	Yes	Yes	2.7	2.7	2.7
VA	Yes	Yes	2.7	3.0	3.0
VT	Yes	Yes	2.4	2.1	2.4
WA	Yes	Yes	2.7	2.3	2.9
WI	Yes	Yes	3.0	3.0	3.0
WV	Yes	Yes	2.4	3.0	3.0
WY	Yes	Yes	3.0	3.0	3.0

n/a = Not Applicable: Not CVIEW Certified or Insufficient Data.

National Counts of T-22 Overall Rating Ranges July – September 2023

July Overall Ratings	IRP CVIEW Certified	August Overall Ratings	IRP CVIEW Certified	Sept. Overall Ratings	IRP CVIEW Certified
Good	41	Good	40	Good	44
Fair	8	Fair	8	Fair	5
Poor	0	Poor	1	Poor	0
Total	49	*Total*	49	*Total*	49

Note: The CVIEW-certified totals in this table might not equal the total number of CVIEW-certified States due to insufficient data for calculating an Overall rating in any month.

Individual Ratings by State – T-22 (IRP)

M1 Timeliness: Upload Frequency – T-22

Standard: Daily uploads.
- Upload frequency equals or exceeds number of business days in the evaluated month.
- **Frequency Standard = 20:** September had 21 weekdays, 1 Federal holiday, and no IDR or SAFER down days.

Methodology: Compare the number of uploads to the frequency standard; calculate the percent of the frequency standard achieved by the State.

Source: Daily Reports, 9/1/2023 – 9/30/2023.

Rating Ranges:
- Good: ≥ 100%
- Fair: 95 – 99%
- Poor: ≤ 94%

M1 Timeliness: Upload Frequency – T-22 State Ratings July – September 2023

Good: ≥ 100%	Fair: 95 - 99%	Poor: ≤ 94%

STATE	IRP CVIEW Certified	July Uploads % of Stnd.	August Uploads % of Stnd.	Sept. Uploads % of Stnd.
AK	Yes	172	122	130
AL	Yes	172	126	140
AR	Yes	172	130	145
AZ	Yes	122	87	130
CA	Yes	167	135	145
CO	Yes	128	87	125
CT	Yes	139	109	120
DC	Yes	n/a	n/a	n/a
DE	Yes	144	104	125
FL	Yes	172	135	145
GA	Yes	172	135	140
HI	No	n/a	n/a	n/a
IA	Yes	156	126	130
ID	Yes	144	126	120
IL	Yes	150	113	115
IN	Yes	172	135	140
KS	Yes	161	135	140
KY	Yes	172	135	145
LA	Yes	133	117	120
MA	Yes	128	122	125
MD	Yes	161	126	135
ME	Yes	139	122	125
MI	Yes	161	135	145
MN	Yes	150	126	120
MO	Yes	161	130	145
MS	Yes	139	122	130

STATE	IRP CVIEW Certified	July Uploads % of Stnd.	August Uploads % of Stnd.	Sept. Uploads % of Stnd.
MT	Yes	139	113	120
NC	Yes	167	135	145
ND	Yes	161	135	130
NE	Yes	172	135	145
NH	Yes	150	117	125
NJ	Yes	172	135	140
NM	Yes	122	109	100
NV	Yes	156	135	135
NY	Yes	161	130	145
OH	Yes	172	135	145
OK	Yes	161	126	140
OR	Yes	172	135	145
PA	Yes	172	135	140
RI	Yes	161	126	130
SC	Yes	161	109	135
SD	Yes	172	135	145
TN	Yes	156	126	130
TX	Yes	167	135	145
UT	Yes	150	122	135
VA	Yes	172	126	145
VT	Yes	100	91	115
WA	Yes	133	126	130
WI	Yes	122	104	115
WV	Yes	117	104	110
WY	Yes	122	104	110

Note: Some States upload on weekends/holidays.   n/a = Not Applicable: Not CVIEW Certified or Insufficient Data.

M2 Completeness: Successful Uploads – T-22

Standard: Minimal error rate.

Methodology: Calculate the percent of received T-22 records that were applied to SAFER (not rejected).

Source: Error logs, 9/1/2023 – 9/30/2023.

Rating Ranges:
- Good: 100%
- Fair: 95 – 99%
- Poor: ≤ 94%

M2 Completeness: Successful Uploads – T-22 State Ratings July – Sept. 2023

Good: 100%	Fair: 95 - 99%	Poor: ≤ 94%

STATE	IRP CVIEW Certified	July % Successful Uploads	August % Successful Uploads	Sept. % Successful Uploads
AK	Yes	100	100	100
AL	Yes	100	100	100
AR	Yes	100	100	100
AZ	Yes	90	100	100
CA	Yes	100	100	100
CO	Yes	100	100	100
CT	Yes	100	100	100
DC	Yes	100	100	100
DE	Yes	100	100	100
FL	Yes	100	100	100
GA	Yes	100	100	100
HI	No	n/a	n/a	n/a
IA	Yes	100	100	100
ID	Yes	100	100	100
IL	Yes	100	5	100
IN	Yes	100	100	100
KS	Yes	100	100	100
KY	Yes	100	100	100
LA	Yes	100	100	100
MA	Yes	100	100	100
MD	Yes	100	100	100
ME	Yes	100	100	100
MI	Yes	100	100	100
MN	Yes	100	100	100
MO	Yes	100	100	100
MS	Yes	100	100	100

STATE	IRP CVIEW Certified	July % Successful Uploads	August % Successful Uploads	Sept. % Successful Uploads
MT	Yes	100	100	100
NC	Yes	100	99	100
ND	Yes	100	100	100
NE	Yes	100	100	100
NH	Yes	100	100	100
NJ	Yes	100	100	100
NM	Yes	99	99	99
NV	Yes	100	100	100
NY	Yes	100	100	100
OH	Yes	100	100	100
OK	Yes	100	100	100
OR	Yes	100	100	100
PA	Yes	100	100	100
RI	Yes	100	100	100
SC	Yes	100	100	100
SD	Yes	100	100	100
TN	Yes	100	100	100
TX	Yes	100	100	100
UT	Yes	100	100	100
VA	Yes	100	100	100
VT	Yes	100	100	100
WA	Yes	95	91	100
WI	Yes	100	100	100
WV	Yes	100	100	100
WY	Yes	100	100	100

n/a = Not Applicable: Not CVIEW Certified or Insufficient Data.

M3 Accuracy: Last Update Date Currency – T-22

Standard: Update date must not be older than existing data.

Methodology: Calculate the percent of total T-22 records in SAFER that were not rejected with the error "Older than existing data."

Source: Error logs, 9/1/2023 – 9/30/2023.

Rating Ranges:
- Good: 100%
- Fair: 98 – 99%
- Poor: ≤ 97%

M3 Accuracy: Last Update Date Currency – T-22 State Ratings July – September 2023

Good: 100%	Fair: 98 - 99%	Poor: ≤ 97%

State	IRP CVIEW Certified	July % Current	August % Current	Sept. % Current
AK	Yes	100	100	100
AL	Yes	100	100	100
AR	Yes	100	100	100
AZ	Yes	100	100	100
CA	Yes	100	100	100
CO	Yes	100	100	100
CT	Yes	100	100	100
DC	Yes	100	100	100
DE	Yes	100	100	100
FL	Yes	100	100	100
GA	Yes	100	100	100
HI	No	n/a	n/a	n/a
IA	Yes	100	100	100
ID	Yes	100	100	100
IL	Yes	100	100	100
IN	Yes	100	100	100
KS	Yes	100	100	100
KY	Yes	100	100	100
LA	Yes	100	100	100
MA	Yes	100	100	100
MD	Yes	100	100	100
ME	Yes	100	100	100
MI	Yes	100	100	100
MN	Yes	100	100	100
MO	Yes	100	100	100
MS	Yes	100	100	100

State	IRP CVIEW Certified	July % Current	August % Current	Sept. % Current
MT	Yes	100	100	100
NC	Yes	100	100	100
ND	Yes	100	100	100
NE	Yes	100	100	100
NH	Yes	100	100	100
NJ	Yes	100	100	100
NM	Yes	100	100	100
NV	Yes	100	100	100
NY	Yes	100	100	100
OH	Yes	100	100	100
OK	Yes	100	100	100
OR	Yes	100	100	100
PA	Yes	100	100	100
RI	Yes	100	100	100
SC	Yes	100	100	100
SD	Yes	100	100	100
TN	Yes	100	100	100
TX	Yes	100	100	100
UT	Yes	100	100	100
VA	Yes	100	100	100
VT	Yes	100	100	100
WA	Yes	100	100	100
WI	Yes	100	100	100
WV	Yes	100	100	100
WY	Yes	100	100	100

n/a = Not Applicable: Not CVIEW Certified or Insufficient Data.

M4 Validity: Vehicle Registration Status – T-22

Standard: Vehicle registration status and IRP status must be aligned.

Methodology: Calculate the percent of active T-22 Interstate records (IRP status of Active) that show valid vehicle registration.

Source: SAFER, 10/4/2023. (Query of process time, interstate flag, registration status, IRP status.)

Rating Ranges:
- Good: 100%
- Fair: 95 – 99%
- Poor: ≤ 94%

M4 Validity: Vehicle Registration Status – T-22 State Ratings July – September 2023

Good: 100%	Fair: 95 - 99%	Poor: ≤ 94%

State	IRP CVIEW Certified	July % Aligned	August % Aligned	Sept. % Aligned
AK	Yes	99	99	99
AL	Yes	100	100	100
AR	Yes	100	100	100
AZ	Yes	100	99	99
CA	Yes	100	100	99
CO	Yes	100	100	100
CT	Yes	100	100	100
DC	Yes	100	100	100
DE	Yes	100	100	100
FL	Yes	64	63	63
GA	Yes	100	100	100
HI	No	n/a	n/a	n/a
IA	Yes	99	99	99
ID	Yes	100	100	100
IL	Yes	85	100	100
IN	Yes	99	100	100
KS[1]	Yes	100	100	100
KY	Yes	100	100	100
LA	Yes	100	100	100
MA	Yes	99	99	99
MD	Yes	100	100	100
ME	Yes	100	100	100
MI	Yes	100	100	100
MN	Yes	100	100	100
MO	Yes	92	100	100
MS	Yes	100	100	100

State	IRP CVIEW Certified	July % Aligned	August % Aligned	Sept. % Aligned
MT	Yes	100	100	100
NC	Yes	100	100	100
ND	Yes	68	69	69
NE	Yes	100	100	100
NH	Yes	100	100	100
NJ	Yes	95	93	92
NM	Yes	99	99	99
NV	Yes	100	100	100
NY	Yes	100	100	100
OH	Yes	100	100	100
OK[2]	Yes	99	99	98
OR	Yes	100	100	100
PA	Yes	100	100	100
RI	Yes	100	100	100
SC	Yes	100	100	100
SD	Yes	100	100	100
TN	Yes	100	100	100
TX	Yes	100	100	100
UT	Yes	97	99	99
VA	Yes	96	100	100
VT	Yes	94	94	94
WA	Yes	100	100	100
WI	Yes	100	100	100
WV	Yes	88	100	100
WY[1]	Yes	100	100	100

n/a = Not Applicable: Not CVIEW Certified or Insufficient Data.

Note: Rating anomalies may result from the variety of renewal grace periods across States. While the M4 measure allows for a 30-day grace period, individual State grace periods range from 30 to 90 days.

[1] ITD DQ team has been notified of State's renewal grace period of 90 days.

[2] ITD DQ team has been notified of State's renewal grace period of 60 days.

M5 Timeliness: IRP Baseline Frequency – T-22

Standard: Annual IRP baseline (minimum).

Source: ITD Support records.

Rating Ranges:
- **Good:** State conducted an IRP baseline at least once in the past 12 months.
- **Poor:** State did not conduct an IRP baseline in the past 12 months.

No State IRP baselines are due soon.

M5 Timeliness: IRP Baseline Frequency – T-22 State Ratings
July – September 2023

Good: Baseline in Last 12 Months	Poor: No Baseline in Last 12 Months	Good: Baseline Due Soon

State	IRP CVIEW Certified	July Rating	August Rating	Sept. Rating
AK[*]	Yes	Good	Good	Good
AL	Yes	Good	Good	Good
AR	Yes	Good	Good	Good
AZ	Yes	Good	Good	Good
CA	Yes	Good	Good	Good
CO	Yes	Good	Good	Good
CT	Yes	Good	Good	Good
DC	Yes	Good	Good	Good
DE	Yes	Good	Good	Good
FL*	Yes	Good	Good	Good
GA	Yes	Good	Good	Good
HI	No	n/a	n/a	n/a
IA	Yes	Good	Good	Good
ID	Yes	Good	Good	Good
IL	Yes	Poor	Good	Good
IN	Yes	Good	Good	Good
KS	Yes	Good	Good	Good
KY	Yes	Good	Good	Good
LA	Yes	Good	Good	Good
MA	Yes	Good	Good	Good
MD	Yes	Good	Good	Good
ME	Yes	Good	Good	Good
MI	Yes	Good	Good	Good
MN	Yes	Good	Good	Good
MO	Yes	Good	Good	Good
MS	Yes	Good	Good	Good
MT	Yes	Good	Good	Good

State	IRP CVIEW Certified	July Rating	August Rating	Sept. Rating
NC	Yes	Poor	Poor	Poor
ND	Yes	Good	Good	Good
NE	Yes	Good	Good	Good
NH	Yes	Good	Good	Good
NJ	Yes	Good	Good	Good
NM	Yes	Good	Good	Poor
NV	Yes	Good	Good	Good
NY	Yes	Good	Good	Good
OH	Yes	Good	Good	Good
OK	Yes	Good	Good	Good
OR	Yes	Good	Good	Good
PA	Yes	Poor	Poor	Poor
RI	Yes	Good	Good	Good
SC	Yes	Good	Good	Good
SD	Yes	Good	Good	Good
TN	Yes	Good	Good	Good
TX	Yes	Good	Good	Good
UT	Yes	Good	Good	Good
VA	Yes	Good	Good	Good
VT	Yes	Good	Good	Good
WA	Yes	Good	Poor	Poor
WI	Yes	Good	Good	Good
WV	Yes	Good	Good	Good
WY	Yes	Good	Good	Good

n/a = Not Applicable: Not CVIEW Certified or Insufficient Data.

[*] State is exempt from baselining so receives credit for purposes of calculating the Overall rating.

Additional Information

SAFER Processing Report

The ITD Support team is aware that data quality can be impacted by the availability and timeliness of SAFER processing. The ITD DQ Evaluation report includes the following information about baseline processing and CVIEW production for the evaluated month.

September	Count / Month
Baselining States	**5**
IFTA Only: AZ, MI, RI	3
IRP Only: WV	1
IFTA and IRP: IL	1
Known Day(s) with Delays in CVIEW Production	**0**
Known Day(s) with Delays in IDR Production	**0**

Indicator of Responsiveness to Reported Data Quality Issues

The DQ Communication Process was developed and implemented to collect and report on specific data quality issues found by any State involving another State's data. Volpe collects and communicates State-reported findings, reaching out to responsible States to not only facilitate record correction, but to help the State identify conditions that may contribute to a larger data quality problem. This process depends on State participation, i.e., reporting findings and, if contacted by Volpe, promptly responding to issues. Since June 2014, Volpe has shared counts of reported and resolved issues at ITD Program Manager and ITD ACCB meetings; this indicator supplements that reporting.

Counts of Reported and Resolved DQ Issues

As of 10/11/2023:
- December 2022: 12 States with reported issues. 5/349 pending.
- February 2023: 7 States with reported issues. 1/35 pending.
- June 2023: 6 States with reported issues. 0/14 pending.
- July 2023: 5 States with reported issues. 0/7 pending.
- August 2023: 1 State with reported issues. 0/1 pending
- September 2023: 4 States with reported issues. 0/7 pending.

Note: Starting with December 2022, DQ discrepancies reported by PrePass are included in these counts.

Responsiveness Indicator Criteria

The Responsiveness Indicator is described below in terms of the indicator's standard and methodology, and the status categories of Good, Fair, and Poor. The table that follows lists the status of the current evaluated month along with the previous two months', for reference.

- **Standard:** Resolve reported issue(s) within 30 days.
- **Methodology:** The number of days between a State being notified by Volpe of a DQ issue and resolving that issue is compared to the 30-day standard.

Responsiveness by State to Reported Data Quality Issues
July – September 2023 Results

Status Categories

- Good: Issue(s) reported and resolved within 30 days.
- Fair: Issue(s) reported during the evaluated month.
- Poor: Reported issue(s) are more than one month old.
- n/a: Not Applicable; no issues reported for that State.

Good: All Reported Issue(s) Resolved	Fair: Issue(s) Reported in Evaluated Month	Poor: Issue(s) More Than One Month Old

State	Core Certified	July Status	August Status	Sept. Status
AK	Yes	n/a	n/a	n/a
AL	Yes	n/a	n/a	n/a
AR	Yes	n/a	n/a	n/a
AZ	Yes	n/a	n/a	n/a
CA	Yes	n/a	n/a	n/a
CO	Yes	n/a	n/a	n/a
CT	Yes	n/a	n/a	n/a
DC	No	n/a	n/a	n/a
DE	Yes	n/a	n/a	n/a
FL	Yes	n/a	n/a	n/a
GA	Yes	n/a	n/a	n/a
HI	No	n/a	n/a	n/a
IA	Yes	Good	n/a	n/a
ID	Yes	Good	n/a	n/a
IL	Yes	Poor	Poor	Poor
IN	Yes	n/a	n/a	n/a
KS	Yes	n/a	n/a	n/a
KY	Yes	n/a	n/a	Good
LA	Yes	n/a	n/a	n/a
MA	Yes	n/a	n/a	n/a
MD	Yes	n/a	n/a	n/a
ME	Yes	n/a	n/a	n/a
MI	Yes	n/a	n/a	n/a
MN	No	n/a	n/a	n/a
MO	Yes	Good	n/a	n/a
MS	Yes	n/a	n/a	n/a

State	Core Certified	July Status	August Status	Sept. Status
MT	Yes	n/a	n/a	n/a
NC	Yes	Good	n/a	n/a
ND	No	n/a	n/a	n/a
NE	Yes	n/a	n/a	n/a
NH	Yes	n/a	n/a	n/a
NJ	Yes	n/a	n/a	n/a
NM	Yes	n/a	n/a	n/a
NV	Yes	n/a	n/a	n/a
NY	Yes	n/a	n/a	n/a
OH	Yes	n/a	n/a	n/a
OK	Yes	n/a	n/a	n/a
OR	Yes	n/a	n/a	Good
PA	No	n/a	n/a	n/a
RI	Yes	n/a	n/a	n/a
SC	Yes	Poor	Poor	Poor
SD	Yes	n/a	n/a	n/a
TN	Yes	Good	n/a	n/a
TX	Yes	Good	n/a	Good
UT	Yes	n/a	n/a	n/a
VA	Yes	n/a	n/a	n/a
VT	Yes	n/a	n/a	n/a
WA	Yes	n/a	n/a	n/a
WI	Yes	n/a	Good	Good
WV	Yes	n/a	n/a	n/a
WY	Yes	n/a	n/a	n/a

Appendix: Evolution of the ITD Data Quality (DQ) Measures

Since 2015, the ITD Support team has analyzed State ITD data submitted to SAFER and reported monthly DQ results to the ITD community. The development and modification of the ITD DQ Measures and associated modifications to the monthly DQ report are summarized here.

2015 Implemented measures for IFTA & IRP data	→	2019 Achieved significant improvement	→	2020 Raised the bar for IRP data	→	2021 Raised the bar for IFTA data	→	2022 Raised the bar for IFTA & IRP data

- **June 2015 report:** The initial DQ measures evaluated T-22 (IRP Registration Input Transaction). Preliminary State ratings based on April 2015 data were presented in June at the FY 2015 ITD Workshop and the first monthly DQ report was published the same month.

- **August 2015 report:** A new indicator of State responsiveness to individual DQ issues reported to Volpe via the DQ Communication Process. Results are NOT included in the Overall Measure rating.

- **October 2015 report:** A second set of measures like the T-22 measures to evaluate T-19 (IFTA Input Transaction). **Note:** The introduction of the T-19 measures necessitated a change to the T-22 measure of Baseline Frequency (M5), which did not distinguish between baselines of IRP and IFTA data. Going forward, IRP and IFTA baselines will be tracked and evaluated separately.

- **February 2016 report:** A modification to the T-19 (IFTA) Measures. In March 2016, the T-19 Validity Measure (M4) was reassessed. Given the variations across States in reporting of the measure's evaluated fields, an accurate rating could not be assigned to all States; thus, M4 was removed from the calculation of the T-19 Overall rating. These changes were implemented with the February 2016 evaluation, but monthly ratings were adjusted going back to October 2015.

- **April 2020 report:** Modifications to the T-22 (IRP) Measures. By 2019, State ratings had improved significantly. While most States were regularly achieving Good Overall ratings, there was room for improvement. Modifications raised the bar of rating categories for the Timeliness (M1), Completeness (M2), and Validity (M4) measures, and adjusted the calculation of the Overall rating to put more emphasis on successful uploads (M2).

Adjusted Calculation of T-22 Overall Rating – April 2020

T-22 Measure	Previous Weight	New Weight
M1	20%	15%
M2	20%	30%
M3	20%	No change
M4	30%	No change
M5	10%	5%

Changes to Selected T-22 Individual Rating Ranges – April 2020

T-22 Measure	Good Rating	Fair Rating	Poor Rating
M1 Timeliness	Previous: ≥ 100% April 2020: No change	Previous: 77-99% April 2020: 95-99%	Previous: ≤ 76% April 2020: ≤ 94%
M2 Completeness	Previous: 96-100% April 2020: 100%	Previous: 90-95% April 2020: 95-99%	Previous: ≤ 89% April 2020: ≤ 94%
M4 Validity	Previous: 100% April 2020: No change	Previous: 90-99% April 2020: 95-99%	Previous: ≤ 89% April 2020: ≤ 94%

- **September 2021 report:** Modifications to the T-19 (IFTA) Measures. On June 1, 2021, to ensure consistent data for the T-19 Validity Measure (M4), the "IFTA account expiration date" field was made mandatory in SAFER. After a three-month preview period, all CVIEW-certified, non-exempt States began receiving an M4 rating and the M4 measure was again included in the T-19 Overall rating calculation. (See "February 2016 report" above for background.)

Adjusted Calculation of T-19 Overall Rating – September 2021

T-19 Measure	Previous Weight	New Weight
M1	30%	15%
M2	30%	No change
M3	30%	20%
M4	Excluded	30%
M5	10%	5%

- **December 2021 report:** Modifications to the T-19 (IFTA) Measures. By late 2021, while most States regularly achieved Good Overall T-19 (IFTA) ratings, there was room for improvement. Modifications implemented with the December 2021 evaluation raised the bar of rating categories for the Timeliness (M1), Completeness (M2), and Validity (M4) Measures to align with the T-22 (IRP) Measures.

Changes to Selected T-19 Individual Rating Ranges – December 2021

T-19 Measure	Good Rating	Fair Rating	Poor Rating
M1 Timeliness	Previous: ≥ 100% **Dec. 2021:** No change	Previous: 77-99% **Dec. 2021:** 95-99%	Previous: ≤ 76% **Dec. 2021:** ≤ 94%
M2 Completeness	Previous: 96-100% **Dec. 2021:** 100%	Previous: 90-95% **Dec. 2021:** 95-99%	Previous: ≤ 89% **Dec. 2021:** ≤ 94%
M4 Validity	Previous: 100% **Dec. 2021:** No change	Previous: 90-99% **Dec. 2021:** 95-99%	Previous: ≤ 89% **Dec. 2021:** ≤ 94%

- **August 2022 report:** Modifications to both the T-19 (IFTA) and T-22 (IRP) Measures. As a follow-on to the December 2021 changes, the rating ranges for both Overall Ratings were adjusted to raise the bar of the Good, Fair, and Poor ratings.

Adjustments to Overall Rating Ranges – August 2022

Good Rating	Fair Rating	Poor Rating
Previous: 2.5 – 3.0 **Aug. 2022:** 2.7 – 3.0	Previous: 2.0 – 2.4 **Aug. 2022:** 2.3 – 2.6	Previous: ≤ 1.9 **Aug. 2022:** ≤ 2.2